

**UNITED STATES DISTRICT COURT
DISTRICT OF MASSACHUSETTS**

UNITED STATES OF AMERICA,)	
)	
)	
v.)	Criminal No: 09-CR-10330-GAO
)	
(1) STRYKER BIOTECH, LLC,)	
(2) MARK PHILIP,)	
(3) WILLIAM HEPPNER,)	
(4) DAVID ARD and)	
(5) JEFFREY WHITAKER,)	
)	
Defendants.)	
)	

**DEFENDANTS STRYKER BIOTECH, LLC,
MARK PHILIP, WILLIAM HEPPNER,
DAVID ARD AND JEFFREY WHITAKER'S
CONSOLIDATED PROPOSED EXHIBIT LIST**

Defendants' Stryker Biotech, LLC, Mark Philip, William Heppner, David Ard and Jeffrey Whitaker hereby give notice that the Defendants may submit the following evidence (including any relevant metadata in the documents identified) as exhibits during its case-in-chief. Defendants reserve their right to supplement, modify, or withdraw any proposed exhibit from this list. Defendants further note that they reserve the right to use any exhibit designated by the Government in its December 13, 2011 exhibit list [Dkt #205] or thereafter, and have accordingly sought to minimize overlap between the Government and the Defense lists.

Exhibit	Date	Description	Bates Label or ID
0500	2002	Article- Clinical Investigation Head and Neck	n/a
0501	11/1/2007	Email from Philip to Beard Re RE: Misbranding Letter Signed by 100% of our	SEM 000544239

Exhibit	Date	Description	Bates Label or ID
		sales team	
0502	2010	Article- Management of Tibial Non-Union with Tricalcium Phosphate and BMP 7	n/a
0503	October _ 2007	Draft Memo from J. Shapiro and C. Martin to M. Philip Re: Annual Estimate of Patients Receiving OP-1 Putty and OP-1 Implant with highlights	SSHP 00000053-00000059
0504	3/10/2006	Meeting Invitation to C. Hout et al. Re: Calstrux CAPA and attachment	SSE 00114118-SSE 00114121
0505		Bone Morphogenetic Proteins What Works? Prove it! PowerPoint	SMS 00002254-00002346
0506	1/29/2008	Meeting Invitation to K. Beard et al. Re: Updated: Compliance Training for Sales (Stryker Spine and agents, Stryker Trauma and agents	SSE 00058790
0507	2001	Article- Osteogenic Protein-1 (Bone Morphogenic Protein-7) In The Treatment of Tibial Nonunions: A Prospective, Randomized Clinical Trial Comparing rhOP-1 with Fresh Bone Autograft	n/a
0508	2006	Calstrux: Filling the Void booklet; Literature Number: PRB002-06	n/a
0509	January 2005	Article- Treatment of Osteopenic Humeral Shaft Nonunion with Compression Plating, Humeral Cortical Allograft Struts, and Bone Grafting	n/a
0510		Native file: Mixing of Calstrux and Local Autograft Bone "Brick" Instructional Video Kurz CD	
0511	4/10/2007 2:34:19 PM	Email from Odell to Odell, et al. Re Review of ATU Wave II and attachments	1400509-1400614
0512	7/19/2007 8:41:22 PM	Email from Ross to Ludwig Re: IMAST meeting	8524668-8524669

Exhibit	Date	Description	Bates Label or ID
0513	9/4/2007 4:38:23 PM	Email from Beard to Lippe Re: recap Journal Club with Dr. Fischgrund	SSE 00058428- SSE 00058431
0514	2/15/2006 10:14:36 PM	Email from Martin to Lopez Re: RE: Hi!	SEM 00077343- SEM 00077343
0515	5/16/2005 2:46:04 PM	Email from Demming to kalfasi@ccf.org Re: Stryker TCP Putty	SEM 00123679- SEM 00123679
0516	12/14/2006	Medical & Radiation Emitting Device Recalls	FDA 8130-8132
0517	8/2/2005	Email from Lancaster to Eltringham et al. Re: RE: TCP Putty	35600000
0518	4/26/2010	Letter from Sternberg to Defendants' counsel	
0519	1990	Article- Clinical applications of tissue expansion in head and neck surgery	n/a
0520	7/14/2006	Calstrux Customer Complaint Review Minutes	SS 00000358- 00000359
0521	8/14/2003	Article- Bone Void Fillers for Spine Fusion (www.spine-health.com/treatment/spinal-fusion/bone-void-fillers-spine-fusion)	n/a
0522	11/5/2007	M. Cartier Bill for Professional Services; Bill Number: 78500	SSHP 00000104- 00000106
0523	8/2/2006	Email from Philip to Kemler Re: FW:	SMSE 00009224
0524	12/28/2006	Email from Whitaker to Morollo Re RE: Heparin	SMSE 00049024- 00049025
0525	8/25/2006	Meeting Invitation to K. Finch et al. Re: Updated: Calstrux Review - Conference Call	SEM 00091691
0526	December 2005	Article- Recombinant Human Bone Morphogenic Protein-7: Applications for Clinical Trauma	n/a

Exhibit	Date	Description	Bates Label or ID
0527	2004	Femoral Nonunion Treated with OP-1 Implant handout; Literature Number: V26-0173 Rev. C	n/a
0528	6/13/2001	Article- Orthopaedic Applications of Osteogenic Protein-1 (BMP-7)	n/a
0529		Native file: Kurz Mixing Video CD	
0530	6/28/2007 3:19:24 PM	Email from Andrews to Biotech Marketing, et al. Re UPDATED Literature Listing-June 2007... and attachment	1202863-1202867
0531	8/11/2007 4:49:29 PM	Email from MacMillan to Philip et al. Re: Biotech Spine PMA New Data Acquisition	8524360-8524360
0532	9/13/2005 7:43:06 PM	Email from Boyer to Ellosso RE: TCP Letter - Listing of Surgeons and attachment	SSE 00053346- SSE 00053384
0533	5/11/2007 4:17:05 PM	Email from Doyle to Gil Re: OP-1	SEM 00030995- SEM 00030995
0534	8/9/2006 12:31:37 PM	Email from Demming to J. Kang Re: RE: OP-1	SEM 00121116- SEM 00121118
0535	7/25/2006	Health Hazard Evaluation for GEN-109-EXP - Agenda Meeting and Minutes	FDA 8128-8129
0536	11/29/2006	Email from Fischgrund to amcgee@orthone.com et al Re: OP-1 cases and attachment	37800124 - 37800161
0537	4/12/2010	Letter from Sternberg to Defendants' counsel	
0538	6/2/2003	Guidance for Industry and FDA Staff Class II Special Controls Guidance Document: Resorbable Calcium Salt Bone Void Filler Device (6/2/2003)	n/a
0539	4/10/2006	Email from Demming to donaldsonwf@upmc.edu Re FW: Dr D's questions	SSE 00051746-SSE 00051747
0540	7/30/2010	Letter from Sternberg to Defendants' Counsel Re Judge Dein's July 21, 2010 Order on Defendants' Joint Motion for a Bill of	n/a

Exhibit	Date	Description	Bates Label or ID
		Particulars	
0541	10/30/2007	Email from Philip to Ramsedell Re: Stuff and attachments	SBSupp-00000056-00000092
0542	7/25/2006	Meeting Invitation from J. Krop to M. Cartier et al. Re: Update: Discussion of Calstrux	SMSE 00070866
0543	2/16/2006	Email from Whitaker to Finch Re RE: Dr Edwards	SMSE 00054487-00054488
0544	10/18/2010	Letter from Sternberg to Defendants' counsel	
0545	2003	Article- Impaction Bone Grafting in Revision Arthropasty: Biological Enhancement of Bone Graft Materials by Osteogenic Factors	n/a
0546	2006	Dose Review: OP-1 Putty, OP-1 Implant (rhBMP-7) booklet; Literature Number: PRB133-06	n/a
0547	July 2001	Article- Strut-Autografting with and without Osteogenic Protein-1: A Preliminary Study of Canine Femoral Head Defect Model	n/a
0548		Native file: Lawrence Kurz, MD TCP Bone Prep (Log) CD	
0549	3/1/2007 7:20:58 PM	Email from Aptekar to Murphy Re RE:	SSE 00059157- SSE 00059157
0550	8/14/2007 5:46:40 PM	Email from Beard to Biotech Marketing & Sales Re: Monday August 20th 4 PM Eastern Journal Club Call - Dr. Fischgrund will be joining our call at 4:30 PM Eastern	8523256-8523257
0551	12/18/2006	Email from Fischgrund to Demming Re: RE: Columbus dinner & grand rounds	36400000 - 36400004
0552	5/2/2007 7:10:36 PM	Email from Doyle to Gil Re: OP-1	SEM 00030994- SEM 00030994
0553	12/21/2007	Email from Demming to D. Wukich Re: RE:	SEM 00120918-

Exhibit	Date	Description	Bates Label or ID
	10:52:22 PM	OP-1	SEM 00120922
0554	2/7/2008	Email from Brown (CDRH) to Kaiser, et al. Re: Recent HDE submissions	USAO 42147-42147
0555	10/17/2007	Email from Espo to Ludwig Re: RE: Emerging Leaders agenda	37800119
0556	3/31/2010	Letter from Sternberg to Defendants' counsel	
0557	10/4/2006	Health Hazard Evaluation for Calstrux Synthetic Bone Void Filler	FDA 8157-8163
0558	3/5/2006	Email from Houghton to Finch, et al. Re Dear Doctor Letter	SSE 00057241
0559	10/25/2011	Letter from Sternberg to Defendants' Counsel Re Automatic Discovery	n/a
0560	10/25/2007	Email from Philip to Ross Re: Legal Opinion on HDE caps and attachment	SBSupp-00000048-00000054
0561	7/25/2006	Meeting Invitation to J. Sernatinger et al. Re: Updated: Calstrux Next steps	SMSE 00070797
0562	1/16/2008	Email from Whitaker to Espo Re RE: OP-1 Users Group - AAOS	SMSE 00059304-00059307
0563	7/10/2006	Email from Philip to Espo Re: RE: Australia	2826764
0564	7/25/2005	Article- Clinical Applications of BMP-7: The UK Perspective	n/a
0565	2007	OP-1 in Action: OP-1 Putty, OP-1 Implant (rhBMP-7) booklet; Literature Number: PRB041-07	n/a
0566	July 1999	Article- Osteogenic Activity of OP-1 Bone Morphogenic Protein (BMP-7) in a Human Fibular Defect	n/a
0567	2006	Native file: Product Loop AAOS 2006 CD	
0568	5/30/2007	Email from Idris to Biotech_Marketing&Sales	SSE 00115828-

Exhibit	Date	Description	Bates Label or ID
	5:43:26 PM	Re Changes to the Calstrux Package Insert and attachments	SSE 00115833
0569	10/31/2007 12:00:00 AM	Email from Heppner to Sales	SSE 000224569 - SSE 000224581
0570	Various	William Caton medical records and patient files	S-WC00000001 - S-WC00042273
0571	10/26/2006 12:01:47 AM	Email from Doyle to Espo Re: BNI	SEM 00030532- SEM 00030532
0572	8/18/2005 5:00:37 PM	Email from damming to tmoore@metrohealth.org Re: Project Summary Spine-26Apr04.doc and attachment	SEM 00114800- SEM 00114805
0573	4/4/2005	SP medical record	USAO 3594-3595
0574	9/4/2007	Email from Espo to Ludwig Re: OP-1 studies for your talk and attachments	37800076 - 37800118
0575	3/18/2010	Letter from Sternberg to Defendants' counsel	
0576	2002	Article- Use of a Novel β-Tricalcium Phosphate-Based Bone Void Filler as a Graft Extender in Spinal Fusion Surgeries	n/a
0577	9/9/2005	Email from Houghton to Winter, et al. Re TCP Letter with Attachments	SEM 00057071- SEM 00057077
0578		Patel Resume	SMSE 00023896- 00023901
0579	10/30/2007	Email from Philip to Yung et al. Re: Latest Position Paper on HDE Caps: PLEASE READ BEFORE THE 2:25pm MEETING and attachment	SBSupp-00000041- 00000047
0580	8/21/2006	Meeting Invitation from J. Sernatinger to B. Alford et al. Re: Calstrux Plan	SMSE 00069822
0581		University of Maryland Medical Center Operative Report Regarding 2006.07.11	n/a

Exhibit	Date	Description	Bates Label or ID
		Kilgour Procedure (7/11/06)	
0582	10/12/2007	Presentations from 2007 Emerging Leaders Meeting (10/12/07-10/13/07)	SMS 2585-2666; 2672-2704; 2716-2762; 2775-2841; 2906-2949; 3044-3134; 3136-3150; 3226-3242; 3382-3444
0583	2005	Article- Osteogenic Protein-1 (Bone Morphogenic Protein-7) Combined with Various Adjuncts in the Treatment of Humeral Diaphyseal Nonunions	n/a
0584	2006	Revision Posterolateral Fusions Treated with OP-1 Putty (rhBMP-7): OP-1 Putty Clinical Case Series booklet; Literature Number: PRB009-06	n/a
0585	May 1995	Article- Effect of Recombinant Human Osteogenic Protein-1 on Healing of Segmental Defects in Non-Human Primates	n/a
0586	5/11/2006	Native file: Humeral Nonunion Treated with OP-1 Implant DVD	
0587	8/21/2006	Email from Philip to Renker, et al. Re: FW: Calstrux Implementation plan	2821618
0588	6/23/2006 7:01:04 PM	Email from Idris to Espo et al. Re: Migration - Addressing the Issue	SSE 00042545-SSE 00042546
0589	10/25/2005 1:00:22 PM	Email from Ellos to mtob11@msn.com Re: FW: TCP Letter - Listing of Surgeons and attachments	SSE 00053281-SSE 00053321
0590	5/31/2006 7:50:24 AM	Email from Theodore, MD to Doyle Re: RE: OP-1	SEM 00013005-SEM 00013007

Exhibit	Date	Description	Bates Label or ID
0591	1/16/2008 6:22:33 PM	Email from Demming to sharonyoa@zoominternet.net Re: OP-1 Renewal and attachment	SEM 00114233- SEM 00114236
0592	4/4/2005	SP medical record	USAO 3591-3593
0593	11/27/2007	Email from Espo to Ludwig Re: FW: Stryker meetings	37800073
0594	2/18/2010	Letter from Sternberg to Defendants' counsel	
0595		Native file: Kurz OP-1 Putty Video	n/a
0596	2/4/2008	Letter from Heppner to Biotech Sales Team Re 2008 Compliance landscape	SP 000000463- 000000464
0597	2/13/2008	Email from Pearce to Barnhisel, et al. Re OP-1: Compliance Reminder	SSE 00095378-SSE 00095381
0598	10/31/2007	Email from Philip to Ramsedell Re: Jeff Shapiro and attachment	SBSupp-00000039
0599	7/31/2006	Fax from B. Alford et al. to S. Liner et al. Re: Label Correction for Calstrux and attachments	SMSE 00018482- 00018512
0600	10/2/2007	Email from Whitaker to Haggarty, et al. Re Fraud and Abuse/Code of Conduct Training	SMSE 00062449
0601	2006	Other Graft Materials Usage with Stryker Products excel spreadsheet	n/a
0602	3/8/2007	Article- Bone Grafts and Bone Graft Substitutes in Orthopaedic Trauma Surgery: A Critical Analysis	n/a
0603	2006	Bridging the Gap, OP-1 Implant rhBMP-7 booklet; Literature Number: PRB004-06	n/a
0604	Spring 2007	University of Pittsburgh Medical Center Spring 2007 News from the University of Pittsburgh Department of Orthopaedic Surgery, including: Article- Treatment of Fracture Nonunion Using Biologic	n/a

Exhibit	Date	Description	Bates Label or ID
		Supplementation: The Role of Osteogenic Protein-1 in the Treatment of Recalcitrant Long-Bone Nonunion	
0605		Native file: Calstrux Bone Void Filler Mixing Instructions CD	
0606	7/13/2006	Email from Philip to Alford Re Calstrux - OP-1 Information	SSE 00218586
0607	3/3/2006 7:36:53 PM	Email from Idris to Houghton Re: list of attendees at the March 1 teleconference and attachment	SSE 00043054-SSE 00043055
0608	12/16/2005 5:05:29 PM	Email from Ellosso to Molesa Re: fax and attachment	SSE 00053264-SSE 00053265
0609	9/14/2006 10:29:30 PM	Calstrux Letter Mailing List and Tracking Chart	18600699-18600734
0610	5/4/2007 6:52:05 PM	Email from Demming to lvcarson@hsc.wvu.edu Re: OP-1 Information and attachments	SEM 00113981-SEM 00114007
0611	5/13/2005	Email from Gemmel (HMHP to Dr. Kavic, et al. Re: OP-1 study	USAO 2695-2695
0612	4/23/2006	Email from Kurz to Espo Re: Emailing: SPINE ARCHIVE and attachments	37800000 - 37800067
0613	11/25/2009	Letter from Sternberg to Defendants' counsel	
0614	2006	Abstracts- Application properties and histological characteristics of injectable CaP bone substitutes	n/a
0615	8/30/2006	Email from Kemler to Pesterfield	SSE 00214643-SSE 00214647
0616	2/12/2008	Email from Ard to Sundae, et al. Re Compliance Reminder	SSE 00213495
0617	10/25/2007	Email from Philip to Sernatinger Re: HDE Caps and attachment	SBSupp-00000032-00000038

Exhibit	Date	Description	Bates Label or ID
0618	6/21/2006	Email from Philip to Yung et al. Re: VP Meeting Minutes and attachment	8622890-1
0619	8/3/2005	Email from Whitaker to Hunter, et al. Re Selling Implant	SMSE 00055864-000055866
0620	2006	Article- Osteogenic Protein-1: A Review of its Utility in Spinal Applications	n/a
0621	December 2000	Article- The Otto Aufranc Award: Strut Allograft Healing to the Femur With Recombinant Human Osteogenic Protein-1	n/a
0622	2006	Midshaft Humeral Nonunion Treated with OP-1 Implant (rhBMP-7): OP-1 Implant Clinical Case Series booklet; Literature Number: PRB008-06	n/a
0623	December 2005	Article- Comparison of OP-1 Putty (rhBMP-7) to Iliac Crest Autograft for Posterolateral Lumbar Arthrodesis: A Minimum 2-year Follow-up Pilot Study	n/a
0624	3/8/2007	Native file: Bryon Friedman OP-1 Video CD	
0625	12/15/2005	Email from Lenneck to Alford et al. Re Strategy Meeting Pre-reading	SSE 00020007
0626	3/4/2006 1:24:18 PM	Calstrux Review Meeting Minutes	SSE 00033126-SSE 00033127
0627	5/3/2006 8:12:28 PM	Email from Heppner to Haggarty et al.	SSE 00057148
0628	8/1/2007 1:39:37 AM	Email from Martin to Geisler Re: RE: New clinical study OP-	SEM 00068075-SEM 00068078
0629	9/10/2007 7:36:57 PM	Email from Demming to sawhny@aol.com Re: OP-1 Information and attachments	SEM 00113938-SEM 00113947
0630	1/26/2006	Letter from Doyle to Dr. P. Mitchell	SD 7723-7723
0631	7/11/2008	Email from Pore to Krop Re: Posterior Lumbar Instrumented Fusion Letter - LAWRENCE T.	38000022 - 38000025

Exhibit	Date	Description	Bates Label or ID
		KURZ, M.D and attachment	
0632	n/a	Product Sample of GERBER® NatureSelect™ 3RD FOODS® Cereals – Apples & Bananas with Mixed Cereal	
0633	2005	ORS 2005 TCP Putty Histology Poster 1010	n/a
0634	9/18/2007	Email from Heppner to Ard, et al. Re RE: Scorecards	SEM 00046003- SEM 00046004
0635	10/9/2007	Email from Ard to Andrews Re RE: Emerging Leaders-Please respond ASAP today!!!	SMSE 00002754
0636	10/25/2007	Email from Philip to Renker Re: FW: PRIVILEGED AND CONFIDENTIAL and attachment	SBSupp-00000016-00000023
0637	7/8/2006	Email from Philip to Yung et al. Re: VP Meeting Minutes from Friday July 7, 2006 and attachment	2831157-8
0638	12/13/2007	Email from Lippe to Chester, et al. Re RE: Need advice ...	SEM 00097601
0639	11/16/2007	Email from O'Flaherty to Ross, et al. Re Meeting report - Utrecht Spine Line Meeting with Attachment	8832325-8832327
0640		OP-1 Implant Package Insert; Literature Number: V26-0093 Rev. C	n/a
0641	2006	Distal Femoral Nonunion Treated with OP-1 Implant (rhBMP-7): OP-1 Implant Clinical Case Series booklet; Literature Number: PRB006-06	n/a
0642	2006	Article- Intervariability and Intravariability of Bone Morphogenetic Proteins in Commercially Available Demineralized Bone Matrix Products	n/a
0643		Native file: High definition product pictures CD	

Exhibit	Date	Description	Bates Label or ID
0644	7/5/2006	Meeting Invitation from Philip to Krop et al. Re: Australia	35700001
0645	1/31/2005 10:18:56 PM	Email from Boyer to Philip et al. Re: OP-1 Heals My Non-Union	7020162-7020163
0646	3/29/2007 8:39:37 PM	Email from Beard to Saur Re: OP-1 Articles	SSE 000 8903333
0647	7/31/2007 11:54:27 PM	Email from Geisler to Martin Re: RE: New clinical study OP-	SEM 00044355- SEM 00044358
0648	11/5/2007 10:56:48 PM	Email from Demming to holly.henry@va.gov Re: OP-1 Information and attachments	SEM 00113888- SEM 00113916
0649	8/12/2002	Memorandum from Doyle to Yuma Medical Center Purchasing	SD 5824-5824
0650	7/11/2008	Email from Fischgrund to Krop Re: OP 1 Letter and attachment	38000018 - 38000021
0651	n/a	Native file: Excerpt from Stryker Biotech National Sales Meeting Compilation Reel DVD - Brown	
0652	2005	ORS 2005 TCP Putty Spine Fusion Poster 1283	n/a
0653	November 2007	AMA Ethics Opinion 8.047	n/a
0654	10/9/2007	Email from Ard to Waklee, et al. Re FDA Guidance with Attachment	SSE 00220151-SSE 00220165
0655	10/30/2007	Meeting invitation to M. Philip et al. Re: HDE Capped	SBSupp-00000133
0656	8/20/2006	Email from Philip to Alford Re: RE: Calstrux Dear Dr Letter	2826862
0657	3/20/2007	Email from Whitaker to Barnett Re RE: USAMCPO	SMSE 00047452- 00047454
0658	9/17/2007	Email from Espo to Philip Re FW: Nice Trauma Meeting - Thank You with	8830489

Exhibit	Date	Description	Bates Label or ID
		Attachments	
0659	2004	OP-1 Implant Patient Information Booklet; Literature Number: V26-0146 Rev. C	n/a
0660	2004	OP-1 Implant (BMP-7) Surgical Technique booklet; Literature Number: V26-0091 Rev. E	n/a
0661	5/15/2006	OP-1 BMP-7 Bibliography for Bone Applications; Literature Number: PRB044-06	n/a
0662	7/14/2005	Stryker Biotech Field Communication From C. Boyer to U.S. Sales Force Re: High Risk Series Abstract - IMAST 2005	n/a
0663	2/21/2006	Email from Espo to Philip Re FW: Moving Forward	SSE 00087809
0664	1/16/2006 9:08:57 PM	Email from O'Dell to Eltringham Re: Positioning presentation - note slide 50 needs to be replaced and attachments	SMSE 00010444- SMSE 00010601
0665	3/7/2007 2:33:00 PM	Email from Biotech Marketing et al. Re: Follow up key points and questions raised during journal club call and attachments	SSE 00180511- SSE 00180518
0666	8/7/2006 1:11:57 PM	August 2006 Calstrux Mailing List	17700122- 17700154
0667	8/11/2006 3:02:29 PM	Email from Demming to bzek@aol.com et al. Re: OP-1 Attachments and attachments	SEM 00113714- SEM 00113746
0668	1/17/2007	Letter from Stryker to FDA regarding adverse event summary table	FDA 000822-824
0669	3/28/2006	Email from Espo to elteekay@msn.com Re: Thank you!	37600133
0670	n/a	Native file: Excerpt from Stryker Biotech National Sale Meeting Compilation Reel DVD - Joyce	
0671	2004	ORS 2004 TCP Putty Tibial Defects Poster 0466	n/a

Exhibit	Date	Description	Bates Label or ID
0672	10/26/2007	Letter from Sernatinger to IRB Chairperson enclosing August 25, 2006 Letter to Doctors, Calstrux Package Insert, and Recipient List	SS 000008992-000009002
0673	6/18/2007	Email from Ard to Waklee, et al. Re FW: OP-1 Implant (BMP-7) with Attachments	SEM 00084577-SEM 00084581
0674	10/29/2007	Email from Sernatinger to Philip et al. Re: My schedule this week	SBSupp-00000132
0675	8/17/2006	Email from M. Philip to B. Alford Re: Calstrux	2820904
0676	11/12/2004	Email from Whitaker to Koenigsberg Re FW:	SMSE 00065007-00065008
0677		University of Maryland Medical Center Operative Report Regarding 2006.07.14 Kilgour Procedure (7/14/06)	USAO 09104-USAO 09105
0678		Calstrux Package Insert; Literature Number: 080000138 Rev. 4	n/a
0679	2003	Mechanism of Action: OP-1 handout; Literature Number: V26-0162 Rev. C	n/a
0680	2009	Hierarchy of Evidence: Spine and Trauma, OP-1 Putty, OP-1 Implant (rhBMP-7) booklet/folder; Literature Number: PRB008-09	n/a
0681	2006	Calstrux Instructions for Use poster; Literature Number: PRB041-06	n/a
0682	1/26/2006	Email from Heppner to Espo and O'Flaherty	SMSE 00022732
0683	11/21/2006 5:18:25 PM	Email from O'Dell to Eltringham Re: FW: Report: ATU (Awareness Trial Usage) Study and attachments	SMSE 00010350-SMSE 00010443
0684	8/22/2006 10:49:48 PM	Email from Doyle to pknuchel@shc.org Re: OP1 for spine	SSE 00053117
0685	2/14/2008	Email from Eastwood to Kellyo@bioinitiatives.com et al. Re:	SSE 00 213453-

Exhibit	Date	Description	Bates Label or ID
	6:19:18 PM	Compliance guidelines	SSE 00213453
0686	4/6/2005 2:41:11 AM	Email from Demming to pauljpagano@zoominternet.com Re: IRB Passed at Forum	SEM 00113236- SEM 00113236
0687	8/4/2006	Email from Bazaral to MacFarland (no subject)	FDA 0007202-7202
0688	5/23/2006	Email from Espo to Kurz Re: RE: PICS FROM KURZ	37600132
0689	7/31/2006	Fax from B. Alford et al. to S. Liner et al. Re: Label Correction for Calstrux and attachments	SMSE 00018482- 00018512
0690	2006	OTA 2006 TCP Putty Tibial Defects Poster 96	n/a
0691	8/25/2006	Letters from Julie Krop to Doctors RE New Precaution added to Calstrux Instructions for Use (Versions 26-0202 Rev. A and 26-0203 Rev. A) and Recipient List	SS 000008978- 000008991
0692	5/19/2007	Email from Ard to Waklee, et al. Re FDA.gov	SSE 00051099
0693	10/11/2007	Email from Waswill to Renker et al. Re: Updated Putty Reports with handwritten notes	O 00000466
0694	7/17/2006	Email from Supko to Philip et al. Re: FW: Requested SOPs and attachments	2805496-2805550
0695	1/11/2007	Email from Whitaker to Finch Re FW: OP-J Contract	SMSE 00064275- 00064277
0696		University of Maryland Medical Center Operative Report Regarding 2006.07.11 Kilgour Procedure	n/a
0697	2006	OP-1 Implant Information Postcard: Revision Posterolateral Fusions Treated with OP-1 Putty (rhBMP-7); Literature Number: PRB024-06	n/a
0698	July 2006	Article- Patients with Previous Lumbar Surgery Achieve Lower Fusion Rates with	n/a

Exhibit	Date	Description	Bates Label or ID
		rhBMP-2	
0699	2006	Periprosthetic Nonunion Treated with OP-1 Implant (rhBMP-7): OP-1 Implant Clinical Case Series; Literature Number: PRB130-06	n/a
0700	December 2002	Article- Randomized Radiostereometric Study Comparing Osteogenic Noninstrumented Posterolateral Lumbar Fusion	n/a
0701	8/22/2006	Memo to Stryker Biotech Sales Reps	SD 05510-SD 05511
0702	10/2/2007 6:29:33 PM	Email from Beard to Espo et al. Re: hold the dates for Nov 6 & 7 for sales training for spine and trauma; Nov 8th for calstrux	SSE 00055753-SSE 00055753
0703	5/11/2007 4:44:04 PM	Email from Gil to Doyle Re: OP-1	SSE 00053092-SSE 00053092
0704	8/17/2005 10:15:24 PM	Email from Fischgrund to Burkus et al. Re: RE: NASS 2005 Symposium and attachment	14200475-14200491
0705	6/5/2007 8:26:38 PM	Email from Demming to staceyw@oaklandneurosurgical.com Re: Information and attachments	SEM 00113110-SEM 00113110
0706	9/7/2006	Email from Doyle to MacFarland, et al. Re: Stryker Biotech Calstrux	FDA 0007027-7029
0707	3/27/2006	Email from Espo to Heppner Re: RE: KURZ	37600131
0708	10/11/2007	Email from Waswill to Renker et al. Re: Updated Putty Reports and attachments	SSE 00043072-SSE 00043076
0709	2009	Article- Clinical Study BMP 7 OP-1 Safety in anterior cervical fusion surgery	n/a
0710	9/7/2005	Letter from Houghton to Valued Customer Re Synthetic Bone Void Filler and Recipient List	SS 000008965-000008977
0711	1/1/2007	Sales Representative Performance Review form for Doyle	S 00003881-S 00003884

Exhibit	Date	Description	Bates Label or ID
0712	11/1/2007	Email from Philip to Eltringham et al. Re: VP Meeting Action Items and attachment	8516384-8516385
0713	7/14/2006	Meeting Invitation to M. Philip et al. Re: Calstrux Meeting	2800220
0714	9/10/2003	Email from Haggarty to Biotech_Sales, et al. Re FW: Jennie's progress	SEM 00089158
0715		Ectopic Bone Formation in the Pelvis after combined Anterior and Posterior Fusion of the Spine with Osteogenic Protein-1 Use: A Case Report	USAO 43035- USAO 43062
0716	2006	OP-1 Implant Information Postcard: Mid-Shaft Humeral Nonunion Treated with OP-1 Implant (rhBMP-7); Literature Number: PRB025-06	n/a
0717	June 2004	Article- Two Year Follow Up on Patients in a Pilot Safety and Efficacy Study of OP-1 Putty (rhBMP-7) in Posterolateral Lumbar Fusion as a Replacement for Iliac Crest Autograft; Literature Number: V26-0179	n/a
0718	2006	Mid-Shaft Humeral Nonunion Treated with OP-1 Implant (rhBMP-7): OP-1 Implant Clinical Case Series booklet; Literature Number: PRB008-06	n/a
0719	August 2002	Article- Recombinant Human Osteogenec Protein-1 (Bone Morphogenic Protein-7) as an Osteoinductive Agent in Spinal Fusion	n/a
0720	8/22/2006	Email from Hubbard to Demming Re: RE: OP-1	8800657
0721	8/21/2007 6:03:21 PM	Email from Boyer to O'Flaherty et al. Re: OP-1 in Trans S1 procedures	SSE 00055625-SSE 00055625
0722	4/2/2007 4:50:18 PM	Email from Heppner to Buffo et al.	SSE 00053075- SSE 00053075
0723	6/18/2007 7:49:24 PM	Email from Murphy to spine68@sprintmail.com et al. Re: OP-1	SSE 00116135- SSE 00116141

Exhibit	Date	Description	Bates Label or ID
		questions per Chip Smith and attachment	
0724	1/31/2007 9:42:54 PM	Email from Demming to Conti Re: Information and attachments	SEM 00113101- SEM 00113108
0725	10/15/2007	Email from Rodriguez to MacFarland Re FW Stryker	FDA 0006057-6058
0726	5/25/2006	Email from Espo to Fischgrund Re: FW: PICS FROM KURZ and attachments	37600013 - 37600021
0727	3/14/2008	Email from Sernatinger to Puca et al. re Minutes UC Davis IRB Call	n/a
0728	2005	Article- Carrier materials for spinal fusion	n/a
0729	June 2006	5.5.2 Pivotal Study (Content from 060021 Original PMA June 2006) Clinical Study Report: S01-01US	20702780
0730	12/5/2006	Email from Ard to Waklee, et al. Re BMP Safety in ACDF and attachments	SSE 00207915-SSE 00207923
0731	10/12/2007	Email from Philip to Yung Re: VP Meeting Action Plan and attachment	8516389-8516390
0732	6/22/2007	Letter from G. Costello to M. Philip Re: Recall of Calstrux	2206629
0733	12/11/2007	Email from Espo to Sample, et al. Re RE: Help!	SMSE 00018811
0734	12/14/2004	Stryker Biotech Delivered Goods Receipt/Invoice	n/a
0735		OP-1 Implant Information Postcard: Humeral Nonunion Treated with OP-1 Implant; Literature Number: V26-0176 Rev. B	n/a
0736	2006	Revision Posterolateral Fusions Treated with OP-1 Putty (rhBMP-7): OP-1 Putty Clinical Case Series booklet; Literature Number: PRB120-06	n/a

Exhibit	Date	Description	Bates Label or ID
0737	2007	5th Metatarsal Nonunion Jones Fracture Treated with OP-1 Implant (rhBMP-7): OP-1 Implant Clinical Case Series booklet; Literature Number: PRB045-07	n/a
0738	December 2004	Article- Lumbar Arthrodesis Gene Expression: A Comparison of Autograft with Osteogenic Protein-1	n/a
0739	3/12/2007	Email from O'Dell to Yung Re: Report from AAOS 2007 and attachment	705192-705193
0740	3/22/2007 3:06:41 PM	Email from Idris to Eltringham Re Recommended Bone Void Filler suppliers and attachment	6509179-6509194
0741	10/27/2007 2:31:55 PM	Email from MacMillan to Philip Re: Biotech 2008 Budget Objectives	8834340-8834340
0742	3/1/2007 3:11:48 PM	Email from Aptekar to P. Murphy Re: RE:	SSE 000594100
0743	8/9/2006 12:59:41 PM	Email from Demming to cfeola@3riv.com et al. Re: FW: OP-1	SEM 00112089- SEM 00112091
0744	9/25/2006	Email from Bazaral to Kaiser, et al. Re: FW: Calstrux tricalcium phosphate putty (bone void filler)	FDA 0005548-5549
0745	5/22/2006	Email from Espo to Kurz Re: FedEx and Radiographs and attachments	37600000 - 37600004
0746	3/10/2008	Email from Ard to Renker & Sernatinger re IRB Audit Without Attachments	SMSE 80304- SMSE 80305
0747	2010	Case Reports- Management of tibial non-union with tricalcium phosphate and BMP 7	n/a
0748	3/31/2009	5.2 Pilot Study (Content from P060021 Original PMA, CSR S99-01US, Section 2) Clinical Study Report: S99-01US	n/a
0749	10/26/2006	Email from Doyle to Espo Re BNI	SEM 0003050532
0750	9/7/2006	Email from Renker to Biotech_Sales	SEM 00000054

Exhibit	Date	Description	Bates Label or ID
0751	7/27/2006	Email from Krop to Alford et al. Re: RE: Calstrux Precaution Statement and attachments	29500000 - 29500001
0752	6/1/2007	Email from Espo to moeJim@med.unc.edu Re OP-1 Spine Inquiry with Attachments	SSE 00051632
0753	12/1/2004	Stryker Biotech Delivered Goods Receipt/Invoice	n/a
0754	2006	OP-1 Implant Information Postcard: Distal Femoral Nonunion Treated with OP-1 Implant (rhBMP-7); Literature Number: PRB023-06	n/a
0755	2006	Revision Posterolateral Fusions Treated with OP-1 Putty (rhBMP-7): OP-1 Putty Clinical Case Series booklet; Literature Number: PRB009-06	n/a
0756	2006	Tibia/Fibula Nonunion in a Professional Athlete Treated with OP-1 Implant (rhBMP): OP-1 Implant Clinical Case Series booklet; Literature Number: PRB131-06	n/a
0757	August 2004	Article- Comparison of Posterolateral Lumbar Fusion Rates of Grafton Putty and OP-1 Putty in an Athymic Rat Model	n/a
0758	6/9/2006	Email from Houts to Idris et al. Re: Calstrux CAPA	32600000
0759	3/22/2005 12:44:00 PM	Clinical Experience with OP -1 PowerPoint	5609482-5609490
0760	10/23/2007 3:49:17 PM	Email from Krop to orthopod203@hotmail.com Re: NASS autograft talk and attachment	SSE 00218635- SSE 00218681
0761	3/26/2007 8:45:46 PM	Email from Beard to Biotech Marketing et al. Re: Journal Club April - Trinity/Osteocel and Actifuse	14100037- 14100038
0762	5/8/2007 12:20:59 AM	Email from Demming to rajeshvpatel@yahoo.com et al. Re: FW: OP-1 information and attachments	SEM 00111804- SEM 00111828

Exhibit	Date	Description	Bates Label or ID
0763	n/a	Susan Panich presentation	CBUSAO 002491-2507
0764	12/19/2006	Email from Espo to Beard Re: Kurz x-ray and attachment	37500000 - 3750000
0765	8/22/2006	Email from Hubbard to Demming Re: RE: OP-1	36700014
0766	1983	Article- β -tricalcium Phosphate Delivery System for Bone Morphogenetic Protein	n/a
0767	11/21/2007	5.5.3 Extension Study (Content from P060021/A011 06-UPLF-01 CSR) Final Clinical Study Report: Prospective Data Collection from the Stryker Biotech Pivotal IDE Study of OP-1 Putty in Uninstrumented Posterolateral Fusions	20702555
0768	5/19/2006	Email from Ard to Miller, et al. Re FW: OP-1 Putty with Attachments	SEM 00084584- SEM 00084590
0769	11/1/2007	Email from Beard to Philip Re Misbranding Letter Signed by 100% of our sales team	SEM 00039734
0770	5/18/2005	Email from Alford to Falb Re: PRB and attachments	29600008 - 29600013
0771	9/7/2005	Letter from Houghton to Valued Customer Re using our synthetic bone void filler product Stryker TCP Putty	SS 00000504- 00000512
0772	11/8/2004	Stryker Biotech Delivered Goods Receipt/Invoice	n/a
0773	2006	OP-1 Implant Information Postcard: Periprosthetic Nonunion Treated with OP-1 Implant (rhBMP-7); Literature Number: PRB146-06	n/a
0774	September 2004	Article- A Pilot Study Evaluating the Safety and Efficacy of OP-1 Putty (rhBMP-7) as a Replacement for Iliac Crest Autograft in Posterolateral Lumbar Arthrodesis for Degenerative Spondylolisthesis	n/a

Exhibit	Date	Description	Bates Label or ID
0775	May 2004	Distal Tibial Nonunion Treated with OP-1 Implant handout; Literature Number: V26-0165 Rev. C	n/a
0776	January 2001	Article- Evaluation of OP-1 as a Graft Substitute for Intertransverse Process Lumbar Fusion	n/a
0777	6/8/2006	Email from Idris to Houts et al Re: Calstrux summary and attachment	32400009 - 32400012
0778	4/6/2006 6:37:44 PM	Email from Houghton to Philip, et al. Re FW Emailing 6 MONTHS AFTER SURGERY BRICK CUT IN 2 HALVES ONLY 6 WEEKS AFTER SURGERY UNCUT BRICK	SSE 00045110- SSE 00045111
0779	10/23/2007 8:03:41 PM	Email from Ross to O'Flaherty et al. Re: Friedman Pics and attachments	8829183-8829189
0780	10/17/2006 9:47:05 PM	Email from Miller to Devlin-Lake Re: IRB and attachments	13203562- 13203613
0781	11/10/2006 1:15:17 PM	Email from Demming to boyerj@summa-health.org Re: FW: IRB Packet Electronically and attachments	SEM 00110846- SEM 00110906
0782	8/14/2006	FDA CDRH Participants and conference points	SSE 00043340
0783	3/18/2005	Email from Fischgrund to Alford et al. and attachment	37000000 - 37000005
0784	10/31/2007	Email from Heppner to Biotech_Sales Re: Urgent Attention needed and attachments	SSE 00224569-SSE 00224581
0785	1986	Article- Bone Regeneration under the Influence of a Bone Morphogenetic Protein (BMP) Beta Tricalcium Phosphate (TCP) Composite in Skull Trehpine Defects in Dogs	n/a
0786	n/a	Curriculum Vitae of William L. Caton III M.D	n/a
0787	4/5/2006	Email from Ard to Doyle Re RE: Gelinas Question	SEM 00012395

Exhibit	Date	Description	Bates Label or ID
0788	9/6/2006	Email from Philip to Yung, et al. Re Notes from VP Meeting with Attachment	2826410-2826411
0789	4/22/2005	Email from Koenigsberg to Eltringham Re: FW: Re: What else?	SSE 00055343SSE -00055345
0790	September 2005	Article- Statement on Health Care Industry Representatives in the Operating Room	n/a
0791		AC# Customer Spreadsheet	n/a
0792	2007	OP-1 Implant Information Postcard: 5th Metatarsal Nonunion Jones Fracture Treated with OP-1 Implant (rhBMP-7); Literature Number: PRB048-07	n/a
0793	January 2003	Article- Physical and Monetary Costs Associated with Autogenous Bone Graft Harvesting	n/a
0794	2004	Humeral Nonunion Treated with OP-1 Implant booklet; Literature Number: V26-0166 Rev. C	n/a
0795	9/9/2005	Stryker Biotech Field Communication From Julie Young To Global Sales Team Re: The Effect of Recombinant Human Osteogenic Protein-1 on Allograft Incorporation attaching Article- The Effect of Recombinant Human Osteogenic Protein-1 on Allograft Incorporation (September 2005)	n/a
0796	11/7/2006	Email from Miller to Mt Tam Spine Center Re: RE: FW: Initial Review Application for OP-1 Putty and attachment	29200137 - 29200139
0797	3/3/2006 12:20:19 PM	Posterior Lateral Spine Fusion Using Lyophilized OP-1 TCP Putty: A Dosing Study PowerPoint	4007697-4007760
0798	6/25/2006 10:09:35 PM	Email from MacMillan to Philip et al. Re: Biotech PMA Update	8810932-8810932
0799	8/29/2007	Email from Miller to mburr@acmedctr.org Re:	SMSE 3182-3206

Exhibit	Date	Description	Bates Label or ID
	5:43:10 AM	Stryker Biotech Products and attachments	
0800	8/9/2006 12:09:03 PM	Email from Kang to Demming Re: RE: OP-1	SEM 00107964- SEM 00107965
0801	n/a	Calstrux CAPA Timeline	SSE 00229170- SSE 0029172
0802	9/17/2007	Email from Espo to Ludwig et al. Re: Nice Trauma Meeting - Thank You and attachments	33900002 - 33900006
0803	4/2/2007	Email from Heppner to Buffo et al.	36100000
0804	2008	Article- Posterolateral Intertransverse Spinal Fusion Possible in Osteoporotic Rats With BMP-7 in a Higher Dose Delivered on a Composite Carrier	n/a
0805	n/a	Curriculum Vitae of Jonathan Newman Grauer, M.D	n/a
0806	7/24/2007	Email from Heppner to Allard, et al. Re RE: Recap Foot & Ankle Journal Club Call	SSE 00089892-SSE 00089893
0807	3/2/2006	Email from Sernatinger to Philip et al. Re: RE: Calstrux - another thought	SSE 00087790
0808	2/2/2008	Email from Philip to Yung, et al. Re Update on Calstrux Strategy with Attachments	SSE 00208972-SSE 00208976
0809	5/16/2006	Email from Whitaker to Ard, et al. Re RE: Spine letter with Attachment	SMSE 00053319- SMSE 00053321
0810	4/11/2007	IRB Continuing Review Form Re OP-1 Implant (Humanitarian Use Device)	SEM 106062
0811	2007	OP-1 Implant Information Postcard: Clavical Nonunion Treated with OP-1 Implant (rhBMP-7); Literature Number: PRB046-07	n/a
0812	December 2001	Article- The Use of Osteogenic Protein-1 in Reconstructive Surgery of the Hip	n/a

Exhibit	Date	Description	Bates Label or ID
0813	2004	OP-1 Putty Surgical Technique booklet; Literature Number: V26-0168 Rev C	n/a
0814	March 1995	Article- Non-Traumatic Avascular Necrosis of the Femoral Head	n/a
0815	3/30/2007	Email from Miller to Santy et al. Re: FW: OP-1 (BMP-7) and attachments	13200241 - 13200273
0816	8/9/2006 5:21:02 PM	Email from Philip to Alford Re RE: Calstrux Correction	2826857-2826859
0817	4/24/2006 6:59:56 PM	Email from Fischgrund to Philip et al. Re: Australia Summary and attachment	SSE 00198848-SSE 00198850
0818	7/17/2007 4:02:40 PM	Email from Shipley to Martin Re: 5 Level Uninstrumented Case	SSE 00089793- SSE 00089795
0819	5/3/2007 6:53:22 PM	Email from Beard to Winter et al. Re: RE: New PRB-approved OP-1 Product Guide (part II) and attachment	SEM 00107893- SEM 00107910
0820	12/5/2006	Email from Sneed to Sneed S. Dorsel (Carolina Hospital) Re OP-1 Cases and Outcomes	SEM 000102141
0821	3/21/2005	Email from Alford to Fischgrund et al. Re: RE: TCP and OP-1 and attachment	36800023 - 36800029
0822	10/10/2007	Email from Denney to Blooston Re: FW: Dr. Quentin Durward Stryker Spine VIP Visit	36600001
0823	2001	Article- Potential of an ultraporous β -tricalcium phosphate synthetic cancellous bone void filler and bone marrow aspirate composite graft	n/a
0824	2010	Bone Graft Substitutes 2010	n/a
0825	10/12/2007	Email from Walters to McDonnell, et al. Re RE: Consignment Agreement Status	SSE 00049832-SSE 00049833

Exhibit	Date	Description	Bates Label or ID
0826	2/16/2006	Email from Sernatinger to Houghton et al. Re: additional details for Casltrux	SSE 00041690
0827	2/15/2008	Email from Renker to Beard Re RE: update on compliance training	SMSE 00079117-00079118
0828	9/20/2007	Email from Boyer to Heppner, et al. Re Survey on Calstrux Materials and Training	SEM 00048054
0829	4/30/2007	IRB Continuing Review Form Re OP-1 Implant (Humanitarian Use Device)	n/a
0830	2006	Calstrux Information Postcard; Literature Number: PRB003-06	n/a
0831	10/14/2005	Article- Styker Impresses at First US MCAC Non-Union Fractures Panel	n/a
0832		Summary of Safety and Probable Benefit: OP-1 Implant; Literature Number: V26-0092 Rev D	n/a
0833	August 2006	Article- What's New in Spine Surgery	n/a
0834	6/23/2006	Email from Idris to Gallagher et al. Re: RE: Paperwork for modifying Calstrux IFU and attachment	32100005-3210008
0835	8/16/2007 4:07:21 PM	Email from Denney to idealortho@msn.com Re Cervical Spine and attachment	SSE 00020746-SSE 00020747
0836	6/9/2005 3:27:02 PM	Email from Lippe to Biotech Sales et al. Re: OP-1 Differentiation Letter and attachment	SSE 00208978-SSE 00208981
0837	3/7/2006 2:55:23 PM	Email from Demming to donaldsonwf@upmc.edu Re: FW: Dr D's questions	SSE 00051746-SSE 00051747
0838	5/3/2007 6:50:28 PM	Email from Beard to Winter et al. Re: New PRB-approved OP-1 Product Guide (part I) and attachment	SEM 00107553-SEM 00107568
0839	7/24/2007	Emerging Leaders letter Re Spine Biologics:	SEM 000101267

Exhibit	Date	Description	Bates Label or ID
		Symposium 2007	
0840	3/10/2005	Email from Fischgrund to Philip et al. Re: RE: My First TCP putty case	36800021-2
0841	4/24/2006	Email from Ipsen, MD to Gaston Re: OP-1	37400007
0842	2009	Article- Hollow calcium phosphate microcarriers for bone regeneration- In vitro osteoproduction and ex vivo mechanical assessment	n/a
0843	2011	Article- TLIF for symptomatic disc degeneration- a retrospective study of 100 patients, European Spine	n/a
0844	4/2/2007	Email from Heppner to Buffo, et al. Re Request from Kemler to find out if we have or have had any surgeons use OP-1 in the Acetabulum	SEM 00049798- SEM 00049798
0845	3/1/2006	Email from Philip to Houghton Re: RE: Calstrux	SSE 00041374
0846	9/11/2007	Letter from Sernatinger to Melkerson Re Preliminary Report	SB 000007721
0847	8/10/2005	Email from Whitaker to Haggarty Re FW: Registry Site Nominations	SMSE 00055847- 00055848
0848	5/2/2006	IRB Continuing Review Form Re OP-1 Implant (Humanitarian Use Device)	n/a
0849		Jeffery S. Fischgrund, MD Information Handout from UnderstandSurgery.com	n/a
0850	January/February 2002	Article- Osseointegration of Autograft versus Osteogenic Protein-1 in Posterolateral Spinal Arthrodesis: Emphasis on the Comparative Mechanisms of Bone Induction	n/a
0851	May 2005	Summary of Safety and Probable Benefit: OP-1 Putty; Literature Number: V26-0178 Rev B	n/a

Exhibit	Date	Description	Bates Label or ID
0852	2006	Article- The Use of Osteogenic Protein-1 for Spinal Applications	n/a
0853		Product Sample and Box Calstrux	n/a
0854	10/19/2006 6:26:45 PM	Email from O'Flaherty to Biotech_Marketing&Sales Re New selling materials available and attachment	1901302-1901305
0855	1/9/2006 4:16:19 PM	Email from Alford to Houghton Re: FW: NASS abstract and attachment	SSE 00087418-SSE 00087420
0856	1/16/2006 4:37:24 PM	Email from Espo to Heppner Re: Larry Kurz	SSE 00042421- SSE 00042423
0857	9/1/2006 6:23:42 PM	Email from Sneed to Shetley et al. Re: OP-1 Putty and attachments	SEM 00102432- SEM 00102436
0858	8/22/2006 3:00:57 AM	Email from Orthopod MD to D. Ard et al. Re: Tushar Patel Grand Rounds CME information	29300000- 29300015
0859	3/9/2005	Email from Fischgrund to Reali et al. Re: My First TCP putty case and attachment	36800006 - 36800008
0860	5/23/2006	Email from Vanhooser to Gaston et al. Re IRB Approval of OP-1 Putty and attachment	37400002 - 37400003
0861	2009	Article- Porous beta tricalcium phosphate scaffolds used as a BMP-2 delivery system for bone tissue engineering	n/a
0862	2010	Article- The performance of a hydrogel nucleus pulposus prosthesis in an ex vivo canine model	n/a
0863	1/24/2006	Email from Heppner to Buffo, et al. Re New York Times Medtronic Article with Attachment	SEM 00091961- SEM 00091965
0864	3/2/2006	Email from Philip to Kemler Re: Casltrux Letter to Surgeons and attachment	SMSE 00009700- 00009701

Exhibit	Date	Description	Bates Label or ID
0865	11/27/2007	Email from Philip to Taylor Re Stryker Biotech Compliance Plan with Attachment	8515396
0866	9/4/2007	Email from Beard to Winter, et al. Re recap Journal Club with Dr. Fischgrund with Attachment	SSE 00089134-SSE 00089136
0867	5/27/2005	IRB Continuing Review Form Re OP-1 Implant (Humanitarian Use Device)	n/a
0868	2004	OP-1 Putty Patient Information Booklet; Literature Number: V26-0172 Rev. B	n/a
0869	2004	Article- Use of Bone Morphogenetic Proteins for Musculoskeletal Applications: An Overview	n/a
0870	4/14/2004	OP-1 Putty Project Summary, Version 1	n/a
0871	2006	Article- Demineralized Bone Matrix for Spinal Arthrodesis	n/a
0872		Product Sample and Box OP-1 Putty	n/a
0873	2/21/2005 4:16:13 PM	Email from Petrides to Gaston, et al. and attachments	1901263-1901298
0874	2/16/2006 11:50:43 PM	Email from Sernatinger to Philip et al. Re: Feedback from Corporate RAQA	8708754-8708754
0875	9/12/2005 4:55:03 PM	Email from WGH Surgery Schedular to Selleke Re: OP-1/TCP CASES FOR DR. KURZ	SSE 00215931- SSE 00215931
0876	2/5/2002 3:16:33 PM	Email from Doyle to Allard Re: IRB Letters and attachments	SEM 00083102- SEM 00083106
0877	11/20/2007 4:52:58 PM	Email from Miller to alannapod@gmail.com Re: OP-1 Implant (BMP-7) New Product Request and attachment	29200036- 29200037
0878	2/21/2006	Email from Houghton to Winter et al. Re: Calstrux Update	33400000

Exhibit	Date	Description	Bates Label or ID
0879	4/23/2007	Email from Gaston to Ipsen, MD et al. Re: OP-1 and attachment	37400001
0880	3/22/2006	Bone Graft Substitutes: Facts, Fictions, & Applications from the 73rd Annual Meeting of the Academy of Orthopaedic Surgeons, prepared by A. Senth Greenwald, D. Phil(Oxon), et al. (March 22-26, 2006)	n/a
0881	2003	Article- The Efficacy of Anterior Spine Exposure by an Orthopedic Surgeon	n/a
0882	3/10/2005	Email from Reali to Biotech_Sales Re FW: My first TCP putty case with Attachment	SSE 00216206-SSE 00216207
0883	2/23/2006	Email from Alford to Philip et al. Re: Feedback from Corporate RAQA	8708754
0884	11/13/2007	Email from Philip to Sernatinger with Attachment	8503988
0885	3/7/2007	Email from Beard to Biotech Marketing, et al. Re Follow up key points and questions raised during journal club call with Attachments	SSE 00179030-SSE 00179031
0886	10/26/2006	Email from Whitaker to Sneed Re Chokshi	SMSE 00050279
0887	2006	Calstrux Information Pamphlet; Literature Number: PRB001-06	n/a
0888	June 2001	Article- The Effect of Osteogenic Protein-1 on the Healing of Segmental Bone Defects Treated with Autograft or Allograft Bone	n/a
0889	2006	Calstrux Reimbursement Information handout; Literature Number: PRB045-06	n/a
0890	2006	Article- Applications of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) in Spinal Surgery	n/a
0891		Product Sample and Box OP-1 Implant	n/a
0892	5/25/2005	Email from jramos@irb-irc.com to Gaston Re	1900918-1900918

Exhibit	Date	Description	Bates Label or ID
	6:05:46 PM	Re: Legal question	
0893	2/24/2006 8:56:44 PM	Email from Lancaster to Philip Re: Castro	SSE 00086920-SSE 00086920
0894	1/5/2006 4:09:32 PM	Email from Heppner to O'Flaherty et al. Re: FW: Larry Kurz and attachments	SSE 00215915-SSE 00215918
0895	1/26/2007 4:23:56 PM	Email from Martin to mfraught@edward.org Re: Invoice for OP-1 Putty and attachment	SEM 00063295SEM 000-63297
0896	7/31/2006 8:44:37 PM	Email from Alford to J. Krop et al. Re: Calstrux US Correction	24000001-24000001
0897	1/5/2006	Email from Kurz to Heppner et al. Re: Larry Kurz and attachments	33300620 - 33300623
0898	3/31/2006	Email from Eastwood to Ard et al. Re: OP-1 & Calstrux Mixing Instructions and attachment	35000006 - 35000011
0899	2010	Article- Bone-Graft Substitute Table Summary 2010	n/a
0900	2007	Article- Solis cage (PEEK) for anterior cervical fusion- preliminary radiological results with emphasis on fusion and subsidence	n/a
0901	2/6/2008	Email from Whitaker to Heppner Re FW: investigation outcome	SMSE 00058666
0902	2/8/2006	Email from Philip to Yung et al. Re: VP Meeting minutes and attachment	8622884-8622885
0903	9/13/2005	TCP Letter Listing - Round 2.xls	SSE 00227094-SSE 00227130
0904	5/27/2005	RA Internal Audit and CAPA Effectiveness Responses/Action Plan	SSE 00058945-SSE 00058947
0905	10/26/2006	Email from Sneed to Snyder Re RE: OP-1 Putty, OP-1 Implant & Calstrux - Our contract #2674	SEM 00104685-SEM 00104686

Exhibit	Date	Description	Bates Label or ID
0906	n/a	OP-1 Implant Package Insert; Literature Number: V26-0093 Rev. D	n/a
0907	2006	OP-1 Implant for Trauma: Reimbursement Information handout; Literature Number: PRB048-046	n/a
0908	2006	Calstrux: Features of a Desirable Bone Void Filler & Instructions for Use handout; Literature Number: PB042-06	n/a
0909	2006	Article- A Prospective Randomized Study of Posterolateral Lumbar Fusion Using Osteogenic Protein-1 (OP-1) versus Local Autograft with Ceramic Bone Substitute: Emphasis of Surgical Exploration and Histologic Assessment	n/a
0910		CD Sleeve - Humeral Nonunion Treated with OP-1 Implant Case Study CD	n/a
0911	7/13/2007 9:05:47 PM	Email from Iseman to Gaston Re RE: Dr Sean Jackson request for OP-1	1900907-1900907
0912	2/17/2006 8:37:21 PM	Email from Heppner to elteekay@msn.com	SSE 00086852-SSE 00086852
0913	12/12/2005 5:49:31 PM	Email from Heppner to elteekay@msn.com	SSE 00215907
0914	12/18/2006 11:14:43 PM	Email from Martin to Luna Re: FDA Approval Letter and attachment	SEM 00061169- SEM 00061178
0915	9/21/2005 8:51:57 PM	Email from Fischgrund to M. DiProfio et al. Re: OP-1/TCP putty study and attachments	23600001- 23600003
0916	12/12/2005	Email from. Heppner to Elteekay@msn.com et al.	33300540
0917	5/23/2006	Email from Kurz to Espo Re: PICS FROM KURZ and attachments	37700190 - 37700198
0918	n/a	Stryker TCP Putty Package Insert	CBUSAO011299
0919	2010	Article- Nell-1 Protein Promotes Bone	n/a

Exhibit	Date	Description	Bates Label or ID
		Formation in a Sheep Spinal Fusion Model	
0920	2/1/2008	Email from Whitaker to Heppner	SMSE 00058798
0921	2/15/2006	Email from Philip to Kemler Re: FW: FDA Notification on Bone Void Fillers and attachment	8611085-8611089
0922	9/9/2005	Email from Houghton to Winter et al Re: TCP Letter and attachments	SEM 00057071- SEM 00057077
0923	8/22/2006	Email from Idris to Wickett et al. Re: FW: Calstrux letter and talking points and attachments	8210123 - 8210140
0924	10/26/2006	2006.10.26 Invite Re OP-1 1 Dr. Chokshi	SEM 00091424
0925	2004	OP-1 Putty Package Insert; Literature Number: V260169 Rev. E	n/a
0926	July 2004	Article- Development of a New Zealand White Rabbit Model of Spinal Pseudarthrosis Repair and Evaluation of the Potential Role of OP-1 to Overcome Pseudarthrosis	n/a
0927	2007	The Biological Solution: OP-1 Technology booklet/folder; Literature Number: PRB009-07 with documents: OP-1 Implant Patient Information Booklet (V26-0146 Rev. D); OP-1 Implant Package Insert (V26-0093 Rev. D); Article- Guidance for Industry and FDA Staff: Humanitarian Device Exemption (HDE) Regulation: Questions and Answers (V260217 Rev. 01); Stryker Biotech IRB Process Summary (V26-0218); 10/17/2001 Letter from D. Schultz, MD to A. LaForte, PhD Re: OP-1 Implant (V26-0215); OP-1 Implant Project Summary (PRB-053-07)	n/a
0928	2004	Article- Bone Formation in the Presence of Platelet-Rich Plasma vs. Bone Morphogenetic Protein-7	n/a
0929		Native file: Humeral Nonunion Treated with	

Exhibit	Date	Description	Bates Label or ID
		OP-1 Implant Case Study CD	
0930	6/10/2005 4:15:17 AM	Email from Gaston to Missy.Eslinger@hcamidwest.com Re OP-1 Putty and OP-1 Implant by Stryker Biotech and attachment	1900903-1900906
0931	2/20/2006 2:36:28 PM	Email from Philip to Espo et al. Re: Visit with Spine docs at Beaumont and attachment	SSE 00041646- SSE 00041647
0932	12/22/2005 12:06:25 AM	Email from Heppner to Houghton et al.	SSE 00042418
0933	2/4/2005 2:33:18 PM	Email from Koenigsberg to Biotech_Sales et al. Re: FW: Field Communication - Medtronic Marketing Propaganda and attachments	SEM 00058080- SEM 00058085
0934	4/13/2005 2:28:25 PM	Email from Real to C. Higginbotham et al Re: RE: INOVA Fair Oaks	21500034- 21500034
0935	4/2/2007	Email from Heppner to Buffo et al.	33300000
0936	4/7/2006	Email from Kurz to Espo Re: DR. KURZ and attachment	37700175 - 37700182
0937	11/1/2006	Carolinas Hospital IRB documentation	SEM 106061
0938	n/a	Calstrux Bone Void Filler Package Insert; Literature Number: 080000138 Rev. 5	FDA0006270
0939	2010	Article- Lordosis Restoration After Smith-Petersen Osteotomies and Interbody Strut Placement	n/a
0940	12/14/2007	Calstrux Business Review Meeting Minutes	SSE 00088168-SSE 00088169
0941	3/1/2006	3/1/2006 Meeting Invitation from J. Houghton to J. Houghton et al. Re: Calstrux	SEM 00048703
0942	9/7/2007	Email from Philip to Alford Re: RE: FDA	8618561

Exhibit	Date	Description	Bates Label or ID
0943	7/31/2006	Fax from B. Alford et al. to S. Liner et al. Re: Label Correction for Calstrux and attachments	USAO 38214-38232
0944	6/28/2002	Email from Brown to Biotech_Sales, et al. Re FW: OP-1 Questions response	CR 0002798-0002799
0945	2/15/2008	Email from Beard to Renker et al. Re: RE: Update on compliance training and attachment	SSE 00225214-SSE 00225217
0946	August 2001	Article- Osteogenic Protein-1 Overcomes the Inhibitory Effect of Nicotine on Posterolateral Lumbar Fusion	n/a
0947		OP-1 BMP-7 Product Information and User Guide; Literature Number: PRB055-07	n/a
0948	2007	Article- Growth Factors- BMPs, DBMs, and Buffy Coat Products: Are There Any Proven Differences Amongst Them?	n/a
0949		Native file: Susan Panich Speech CD	
0950	4/7/2007 1:05:06 AM	Email from Gaston to Lisa.brown@hcandidwest.com Re OP-1 (BMP-7) and attachments	1900871-1900902
0951	2/21/2006 11:06:58 PM	Email from Philip to Espo Re: FW: Moving forward	SSE 00041379-SSE 00041381
0952	3/8/2007 10:28:28 PM	Email from Whitaker to Andrellos Re: FW: Indigent case	SSE 00049851
0953	5/23/2007 5:45:25 PM	Email from Beard to Winter et al. Re: Good web site for you to visit to access information about hospitals in your territory	SEM 00039084-SEM 00039084
0954	2/28/2007 10:38:57 PM	Meeting Notice Re: Journal Club: interbody devices used with OP-1 in goat model (preclinical) and Orthopedics Today article on OP-1 Putty Success in Spinal Fusion for 3/6/07	2800809-2800810
0955	2/22/2007	Email from O'Flaherty to Lippe Re: RE: Calstrux Literature PDF and attachments	33500469 - 33500479

Exhibit	Date	Description	Bates Label or ID
0956	2/17/2006	Email from Heppner to Elteekay@msn.com et al.	36400026
0957	12/19/2011	Letter from Sternberg to Defendants' counsel	
0958	n/a	OP-1 Putty Package Insert; Literature Number: V260169 Rev. C	n/a
0959	2008	Article- Extravasation of rhBMP-2 With Use of Postoperative Drains After Posterolateral Spinal Fusion	n/a
0960	10/26/2007	Letter from Renker to Stryker Biotech Sales Representatives, et al. Re Policy agreement	SSE 00033646
0961	2/22/2006	Email from Philip to Yung et al. Re: Action plan following VP meeting Friday and attachment	8622853
0962	11/7/2007	Email from Shapiro to Philip Re: Final Memo Re sales cap and attachment	SSHP 00000012-00000019
0963	8/20/2006	Email from Philip to Kemler Re: Final Calstrux Letter and attachment	SSE 00022592-SSE 00022593
0964	11/14/2007	Email from Whitaker to Renker, et al. Re FW: Novant RFP Document with Attachments	SMSE 00065866-00065869
0965	1/14/2008	Meeting Invitation to M. Philip et al. Re: Sales Compliance discussion; status: accepted and attachment	SSE 00173077-SSE 00273079
0966	December 2002	Article- Use of Osteogenic Protein-1 in Spinal Fusion: Literature Review and Preliminary results in a Prospective Series of High-Risk Cases	n/a
0967	2006	Forward Thinking in Fusion: OP-1 Putty rhBMP-7 booklet; Literature Number: PRB005-06	n/a
0968	2002	Article- Osteogenic Protein-1 Induced Bone Formation in an Infected Segmental Defect in	n/a

Exhibit	Date	Description	Bates Label or ID
		the Rat Femur	
0969		Native file: AAOS Booth CD	
0970	3/5/2007 7:43:36 PM	Email from Andrellos to Gaston Re Putty IRB Packet and attachments	1900795-1900849
0971	2/13/2006 10:47:21 PM	Email from Philip to Espo Re: Beaumont	SSE 00086635- SSE 00086636
0972	9/13/2005 7:43:06 PM	Email from Boyer to Biotech Sales Re: TCP Letter - Listing of Surgeons and attachments	SSE 00227093- SSE 00227132
0973	7/12/2005 7:27:21 PM	Email from Martin to Flick Re: RE: OP-1 implant patient brochure/booklet and attachment	SEM 00078777- SEM 00078786
0974	12/6/2005 2:01:13 PM	Email from Demming to karauskyp1@msx.upmc.edu Re: TCP paper and attachment	SEM 00123748- SEM 00123750
0975	02-2006	February 2006 Stryker Biotech Organizational Chart	
0976	7/18/2006	regulatory sales training presentation Jul 06.ppt	4901938-52

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CERTIFICATE OF SERVICE

I hereby certify that this document filed through the ECF system will be sent electronically to the registered participants as identified on the Notice of Electronic Filing (NEF), and that paper copies will be sent to any indicated as non-registered participants, on December 21, 2011.

December 21, 2011

/s/ Joshua S. Levy
Joshua S. Levy